



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 95,1408-JJJ)

In the Application of:

Mian et al.

Serial No.: 09/989,582

Filing Date: November 20, 2001

For: Devices and Methods for Using  
Centripetal Acceleration to Drive Fluid  
Movement in a Microfluidics

Examiner:

Group Art Unit: 1641

TRANSMITTAL LETTER

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

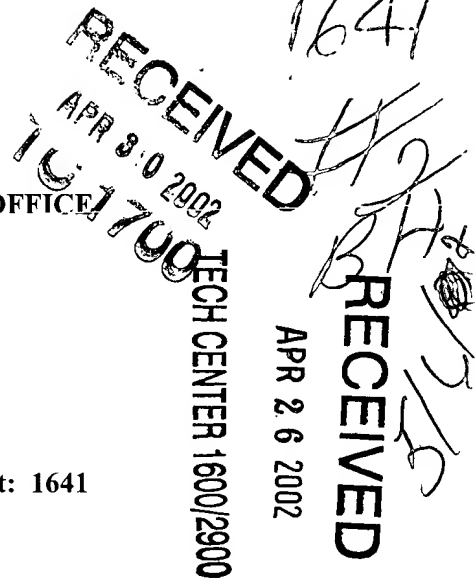
In regard to the above identified application,

1. We are transmitting herewith the attached:
  - a) Information Disclosure Statement;
  - b) PTO Form 1449 and cited references;
  - c) Return postcard
2. With respect to fees:
  - a) No fees are required
  - b) Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490. A duplicate copy of this letter is enclosed.
3. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1, are being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 on April 23, 2002.

Date: 23 April 2002

Respectfully submitted,

Kevin E. Noonan, Ph.D.  
Registration No. 35,303



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 95,1408-JJJ)

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PATENT

the Application of:

Mian et al.

Serial No.: 09/989,582

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For: Devices and Methods for Using  
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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97 - 1.99, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56. Copies of the references cited below are enclosed. These references are also listed on the enclosed PTO Form 1449.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. Section 102 or Section 103.

Applicants do not believe any fee is due with this submission. If this belief be in error and the Patent Office determines that the fee prescribed in the relevant portion of 37 C.F.R. Section 1.97 is applicable, the undersigned attorney by his signature hereby authorizes any such fee to be debited from

Deposit Account 13-2490.

If any of the references are incomplete the Examiner is cordially invited to contact the undersigned by telephone (312) 913-0001.

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1. Salatiello et al., U.S. Patent No. 4,729,862, issued July 21, 1981
2. Ekins, U.S. Patent No. 4,381,291, issued April 26, 1983
3. Klose et al., U.S. Patent No. 4,515,889, issued May 7, 1985
4. Edelmann et al., U.S. Patent No. 4,676,952, issued June 30, 1987
5. Ekins, U.S. Patent No. 4,745,072, issued May 17, 1988
6. Kopf-Sill et al., U.S. Patent No. 5,160,702, issued November 3, 1992
7. Ekins, U.S. Patent No. 5,171,695, issued December 15, 1992
8. Burtis et al., U.S. Patent No. 5,173,262, issued December 22, 1992
9. Burtis et al., U.S. Patent No. 5,242,803, issued September 7, 1993
10. Burd, U.S. Patent No. 5,409,665, issued April 25, 1995
11. Buhl et al., U.S. Patent No. 5,413,732, issued May 9, 1995
12. Tabata et al., U.S. Patent No. 5,432,009, issued July 11, 1995
13. Schembri, U.S. Patent No. 5,472,603, issued December 5, 1995
14. White, U.S. Patent No. 5,006,749, issued April 9, 1991
15. Kroy et al., U.S. Patent No. 5,252,294, issued October 12, 1993
16. Wilding et al., U.S. Patent No. 5,304,487, issued April 19, 1994
17. Madou et al., U.S. Patent No. 5,368,704, issued November 29, 1994
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- 23 Burd et al., U.S. Patent No. 5,186,844, issued February 16, 1993
- 24 Braynin et al., U.S. Patent No. 5,122,284, issued June 16, 1992
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- 26 Burd et al., U.S. Patent No. 5,457,053, issued October 10, 1995
- 27 Bernstein et al., U.S. Patent No. 5,478,750, issued December 26, 1995
- 28 Schembri et al., U.S Patent No. 5,591,643, issued January 7, 1997
- 29 Burd et al., U.S. Patent No. 5,518,930, issued May 21, 1996
- 30 Schembri et al., U.S. Patent No. 5,472,603, issued December 5, 1995
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- 32 Kelton et al., U.S. Patent No. 5,496,520, issued March 5, 1996
- 33 Burd, U.S. Patent No. 5,061,381, issued October 29, 1991
- 34 Braynin et al., U.S. Patent No. 5,242,606, issued September 7, 1993
- 35 Schembri, U.S. Patent No. 5,403,415, issued April 4, 1995
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- 38 Buhl et al., U.S. Patent No. 5,624,567, issued April 29, 1997
- 39 Schembri, U.S. Patent No. 5,599,411, issued February 4, 1997
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- 43 International Patent No. WO 93/22058, published November 11, 1993
- 44 European Patent No. 417,305, published March 20, 1991
- 45 European Patent No. 616,218, published September 21, 1994
- 46 European Patent No. 305,210, published December 8, 1993
- 47 European Patent No. 322,657, published July 5, 1989
- 48 German Patent No. 4,410,224, published September 28, 1995
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- 50 International Patent No. WO 95/33986, published December 14, 1995

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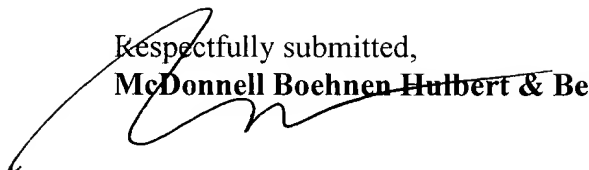
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- 84 Veider et al., (1995), Eurosensors IX, pp. 284-286
- 85 Wilding et al., (1994), Automat. Analyt. Tech., 40: 43-47

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Date: 23 April 2002

Respectfully submitted,

  
**McDonnell Boehnen Hulbert & Berghoff**

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Kevin E. Noonan, Ph.D.

Reg. No. 35,303

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application No.

09/089,582

Filing Date:

November 20, 2001

First Named Inventor

Milan et al.

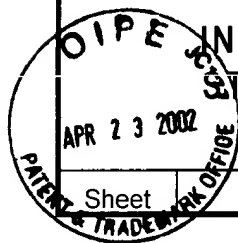
Group Art Unit

1641

Examiner Name

Attorney Docket No.

95,1408-JJJ



Sheet

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of

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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		4,729,862		Salatiello et al.	July 21, 1981	
		4,381,291		Ekins et al.	April 26, 1983	
		4,515,889		Klose et al.	May 7, 1985	
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		4,745,072		Ekins	May 17, 1988	
		5,160,702		Kopf-Sill	November 3, 1992	
		5,171,695		Ekins	December 15, 1992	
		5,173,262 *		Burtis et al.	December 22, 1992	
		5,242,803		Burtis et al.	September 7, 1993	
		5,409,665		Burd	April 25, 1995	
		5,413,732		Buhl	May 9, 1995	
		5,432,009		Tabata	July 11, 1995	
		5,472,603		Schembri	December 5, 1995	
		5,006,749		White	April 9, 1991	
		5,252,294		Kroy	October 12, 1993	
		5,304,487		Wilding	April 19, 1994	
		5,368,704		Madou	November 29, 1994	
		3,679,367		Negersmith	July 25, 1972	
		4,940,527		Kazlauskas et al.	July 10, 1990	
		4,515,889		Klose et al.	May 7, 1985	
		5,426,032		Phillips et al.	June 20, 1995	
		4,154,793		Guigan	May 15, 1979	

Examiner  
SignatureDate  
Considered

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application No.	09/989,682
Filing Date:	November 20, 2001
First Named Inventor	Mian et al.
Group Art Unit	1641
Examiner Name	
Attorney Docket No.	95,1408-JJJ

Sheet 2 of 6

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		5,186,844		Burd	February 16, 1993	
		5,122,284		Braynin et al.	June 16, 1992	
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		5,478,750		Berstein et al.	December 26, 1995	
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		5,693,233		Schembri	December 2, 1997	
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		5,242,606		Braynin et al.	September 7, 1993	
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		5,624,597		Buhl et al.	April 29, 1997	
		5,599,411		Schembri	February 4, 1997	
		5,639,428		Cottingham	June 17, 1997	
		6,319,469		Mian et al.	November 20, 2001	

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Date  
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application No.

09/989,582

Filing Date:

November 28, 2001

First Named Inventor

Miah et al.

Group Art Unit

1641

Examiner Name

Attorney Docket No.

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## FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	93/22053		Trustees of the University of PENN	11/11/93		
		WO	93/22058		Trustees of the University of PENN	11/11/93		
		EP	417,305	A1	Idemitsu Petrochemical Co. Ltd.	3/20/91		
		EP	616,218	A1	Hitachi, Ltd.	9/21/94		
		EP	305,210		Biotrack, Inc.	12/8/93		
		EP	322,657		Miles Inc.	7/5/89		
		GER	4,410,224		Gleich Anmelder	9/28/95		
		EP	637,367	B1	ABAXIS, Inc.	12/10/97		
		WO	95/33986		ABAXIS, Inc.	12/14/95		

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Anderson, "Analytical Techniques for Cell Fractions" (1968), <i>Anal. Biochem.</i> , 28: 545-562	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application No.		09/989,582	
		Filing Date:		November 20, 2001	
		First Named Inventor		Mian et al.	
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		Ballantine et al., " <u>Surface Acoustic Wave</u> ", (June 1989), Anal. Chem., 61/11: pp. 704-715.	
		Bertrand et al., " <u>A One-Step Determination of Serum 5'-nucleotidase using a centrifugal Analyzer</u> ", (1982), Clinica Chimica Acta, 119: 275-284.	
		Blackburn et al., " <u>Electrochemiluminescence Detection for Development of Immunoassays and DNA Probe Assays for Clinical Diagnostics</u> ", (1991), Clin. Chem., 37/9: 1534-1539.	
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Examiner Signature	<b>RECEIVED</b>	<b>RECEIVED</b>	Date Considered	<b>RECEIVED</b> APR 23 2002 TC 1700
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APR 26 2002

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TC 1700

Substitute for form 1449A/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Application No.</b>	<b>09/989,582</b>		
		<b>Filing Date:</b>	<b>November 20, 2001</b>		
		<b>First Named Inventor</b>	<b>Mian et al.</b>		
		<b>Group Art Unit</b>	<b>1641</b>		
		<b>Examiner Name</b>			
Sheet	5	of	6	<b>Attorney Docket No.</b>	<b>95,1408-JJJ</b>

<b>OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS</b>			
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		Fritsche et al., "Enzymatic Endpoint Analysis of Glucose with the Hexokinase Method and the Union Carbide Fast Centrifugal Analyzer", (1975), Clin Biochem., 8: 240-246.	
		Glass et al., "Effect of Numerical aperture on signal level in cylindrical waveguide evanescent fluorosensors" (June 1987), Appl. Optics, 26/11: 2181-2187	
		Haab et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis" Anal. Chem., 1995, 67, 3253-3260.	
		Hadjiioannou et al., "Automated Enzymic Determination of Ethanol in Blood, Serum, and Urine with a Miniature Centrifugal Analyzer", (1976), Clin. Chem. 22/6:802-805.	
		Heineman, "Biosensors Based on Polymer Networks Formed by Gamma Irradiation Crosslinking", (1993), App. Biochem. Biotech., 41: 87-97.	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English translation is attached.

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Examiner Signature	RECEIVED APR 26 2002	RECEIVED APR 25 2002	Date Considered	RECEIVED APR 30 2002 TC 1700
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Substitute for form 1449A/PTO

Complete if Known

Application No.	09/989,582
Filing Date:	November 20, 2001
First Named Inventor	Mian et al.
Group Art Unit	1641
Examiner Name	
Attorney Docket No.	95,1408-JJJ

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 6

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Renoe et al., "A Versatile Minidisc Module for a Centrifugal Analyzer"(1974), Clain. Chem., 20/8:955-960.	
		Rosenzweig et al., "Laser-Based Particle-Counting Microimmunoassay for the Analysis of Single Human Erythrocytes" (1994), Anal. Chem., 66: 1771-1776	
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		Wilding et al., Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon (1994), Clin. Chem., 40/1: 43-47.	

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